

# CEN Workshop Guidelines for bioactivity measurements in extracts from an agri-food by-product: white grape marc

## Workshop description form

- PART A – Workshop Summary
- PART B – Project Plan

## PART A – Workshop SUMMARY

<b>1</b>	<b>WS details</b>		
1.1.	<b>Organization</b>	<input checked="" type="checkbox"/> CEN <input type="checkbox"/> CENELEC <input type="checkbox"/> Joint with <input type="checkbox"/> CEN lead <input type="checkbox"/> CENELEC lead	
1.2.	<b>Title</b>	CEN WS “NeoGiANT - Bioactivity measurements in extracts from an agri-food by-product: white grape marc”	
1.3.	<b>Scope</b>	The purpose of the Workshop is to establish guidelines for bioactivity measurements in extracts obtained from white grape marc as an agri-food residue, based on the experience of NeoGiANT project. Anyone having an interest in joining the Workshop will be free to participate.	
1.4.	<b>Does this WS stem from an EU Research project?</b>	<input checked="" type="checkbox"/> YES Name of the project: NeoGiANT - The power of grape extracts: antimicrobial and antioxidant properties to prevent the use of antibiotics in farmed animals Grant number: 101036768 End date 2026-03-31  <input type="checkbox"/> NO	
1.5.	<b>Financial support</b>	<input checked="" type="checkbox"/> EU Research project <input type="checkbox"/> EC/EFTA Grant reference: Type here <input type="checkbox"/> Other Specify, if needed: Type here	
1.6.	<b>WS Proposer/Proposed Chair</b>  <b>WS proposer</b>	Name: Organization: Postal address: Email: Phone: Webpage: Contact person (name and email):	Marta Lores University of Santiago de Compostela Faculty of Chemistry, Avda das Ciencias sn, 15782, Santiago de Compostela, Spain marta.lores@usc.es +34647344032 www.usc.gal Marta Lores, marta.lores@usc.es
1.7.	<b>WS Secretariat</b>	Organization: Postal address: Email: Phone: Webpage: WS Secretary name: Email: Phone:	UNE 28004 Madrid tmarcos@une.org +34914326056 www.une.org Tania Marcos tmarcos@une.org +34914326056
1.8.	<b>CEN and CENELEC Management Centre (CCMC) contact</b>	Organization: Postal address: Webpage: CCMC Project Manager name: Email: Phone:	CEN and CENELEC Rue de la Science 23B - 1040 Brussels, Belgium <a href="https://www.cencenelec.eu/Pages/default.aspx">https://www.cencenelec.eu/Pages/default.aspx</a> Claire Van Thielen cwa@cencenelec.eu +3225500831 +32478793545
1.9.	<b>Tentative date and place of the Kick-off Meeting</b>	Date: 2025-09-22	Place: On-line

1.10.	<b>Does the proposed Workshop fall within the scope of existing CEN and/or CENELEC Technical Bodies?<sup>1</sup></b>	<input checked="" type="checkbox"/> YES Specify: CEN/TC 275 Food analysis – Horizontal methods; CEN/TC 327 Animal feeding stuffs - Methods of sampling and analysis <input type="checkbox"/> NO																									
1.11.	<b>Are there other Technical Bodies or Joint Advisory and Coordination Groups potentially interested in the Workshop? <sup>2</sup></b>	<input checked="" type="checkbox"/> YES Specify: ISO/TC 34 <input type="checkbox"/> NO																									
1.12.	<b>Are the following aspects affected?</b>	<table border="0"> <tr> <td>Safety matters</td> <td>YES<sup>3</sup></td> <td><input type="checkbox"/></td> <td>NO</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Management system aspects</td> <td>YES<sup>4</sup></td> <td><input type="checkbox"/></td> <td>7</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Conformity assessment aspects</td> <td>YES<sup>5</sup></td> <td><input type="checkbox"/></td> <td>NO</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Security matters</td> <td>YES<sup>6</sup></td> <td><input type="checkbox"/></td> <td>NO</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td></td> <td>8</td> <td></td> </tr> </table>	Safety matters	YES <sup>3</sup>	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	Management system aspects	YES <sup>4</sup>	<input type="checkbox"/>	7	<input checked="" type="checkbox"/>	Conformity assessment aspects	YES <sup>5</sup>	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	Security matters	YES <sup>6</sup>	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>				8	
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Conformity assessment aspects	YES <sup>5</sup>	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>																							
Security matters	YES <sup>6</sup>	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>																							
			8																								
		Add information/explanations if Management System aspects and Conformity Assessment aspects are affected: Type here																									
<b>2 WS Deliverables</b>																											
2.1.	<b>CWA #1</b>																										
2.1.1	<b>Title</b>	<input checked="" type="checkbox"/> Same as WS title (1.2) <input type="checkbox"/> Other:																									
2.1.2	<b>Scope</b>	This CWA document specifies several analytical methodologies for the characterization of extracts obtained from white grape marc as an agri-food residue, by determining their Total Polyphenolic Content (TPC) and their Antioxidant Activity (AA). The provided methods are based on the experience of the EU-funded NeoGiANT project with white grape marc but could also be applied to extracts from other agri-food wastes and by-products, such as fruits or vegetables.																									
2.1.3	<b>Does the proposed CWA conflict with a published EN</b>	<input type="checkbox"/> YES Specify: Type here <input checked="" type="checkbox"/> NO In case the answer is 'yes', the development of the CWA shall be stopped																									

<sup>1</sup> Part A and Part B of this form shall be sent by the WS secretary to the secretary of the Technical Bodies identified in this section to inform them about the creation of the WS and register any possible objection within 30 days (45 during the holiday period).

<sup>2</sup> Part A and Part B of this form should be sent by the WS secretary to the Bodies identified in this section to inform them about the creation of the WS.

<sup>3</sup> Work on the proposed CEN and/or CENELEC Workshop shall not be initiated.

<sup>4</sup> The CEN and/or CENELEC Workshop proposal shall be submitted to the CEN/CENELEC BT(s) for decision.

<sup>5</sup> CEN-CENELEC Internal Regulations - Part 3, Clause 33 applies.

<sup>6</sup> For projects dealing with security matters the security risk analysis provided in Annex I shall be carried out.

<sup>7</sup> See Note 2 in CEN-CENELEC Guide 29, Clause 3.

<sup>8</sup> See Note 2 in CEN-CENELEC Guide 29, Clause 3.

## PART B – Project Plan

## **Abstract**

The characterisation of extracts of natural origin, and specifically agri-food by-products, is challenging from an analytical point of view due to the wide variety of methodologies described in the literature and due to the large variety of matrices.

However, harmonisation in this field is of great importance to establish unified criteria for the comparison of the analytical results obtained. In this sense, this workshop will generate a unified methodology not only to be applied to the extracts used in the project, obtained from a specific agri-food waste such as white grape bagasse, but also to those derived from other by-products of a similar nature.

This document specifies several analytical methodologies for the characterization of extracts obtained from white grape marc as an agri-food residue, by determining their Total Polyphenolic Content (TPC) and their Antioxidant Activity (AA).

The provided methods are based on the experience of the EU-funded NeoGIANT project with white grape marc but could also be applied to extracts from other agri-food wastes and by-products, such as fruits or vegetables.

This CWA will be developed in the framework of NeoGIANT project.

## **1 Status of the project plan**

**Draft project plan** for public commenting (Version 1.0)

This draft project plan is intended to inform the public of a new Workshop. Any interested party can take part in this Workshop and/or comment on this draft project plan by sending an email to the WS secretary.

All those who have applied for participation or have commented on the project plan by the deadline will be invited to the kick-off meeting of the Workshop on 2025-09-22.

## **2 Workshop proposer and potential Workshop participants**

This workshop is proposed in the framework of the EU-funded research project NeoGIANT (GA 101036768). More information: <https://www.neogiant.eu/>

### **2.1 Workshop proposer**

Proposed Chair: Dr. Marta Lores (University of Santiago de Compostela, Spain).

As NeoGIANT project coordinator and Full Professor at University of Santiago de Compostela, having participated in >30 competitive research projects and in > 40 R&D contracts, considers that the standardisation of methodologies for the determination of bioactivities in agri-food by-products is of great interest in order to be able to compare the results of the different raw materials from different origin used.

### **2.2 Potential participants**

This CWA will be developed in a Workshop (temporary body) that is open to any interested party. The participation of other experts would be helped and is desired.

Participation from the following NeoGiANT project partners is expected:

- University of Santiago de Compostela (USC), Spain
- i-Grape Laboratory (i-GRAPE), Spain
- Moredun Research Institute (MRI), United Kingdom
- Institute of Agricultural and Food Biotechnology (IBPRS), Poland
- Veterinary Research Institute (VRI), Czech Republic
- Hungarian University of Agriculture and Life Sciences (MATE), Hungary
- Freie Universität Berlin (FUB), Germany
- University of Porto (FCUP), Portugal
- University of La Laguna (ULL), Spain
- Asociación Española de Normalización (UNE), Spain
- University of South Bohemia (JU), Czech Republic
- Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina
- Asociación Agraria de Jóvenes Agricultores (ASAJA), Spain
- Anitom S.L. (ATM), Belgium
- Contactica S.L. (CTA), Spain
- Nutrition Sciences (NUS), Belgium
- CZ Vaccines (CZV), Spain
- LifeBioencapsulation S.L. (LBE), Spain
- Bianor Biotech (BIAN), Spain
- MAGAPOR S.L. (MAGA), Spain

It is recommended that:

- Routine analysis laboratories
- Pharma Industry
- Biotechnology Industry
- Fine Chemicals Industry
- Policymakers focused on sustainability and innovation
- Standards application

take part in the development of this CWA.

## 3 Workshop objectives and scope

### 3.1 Workshop background

The main objective of NeoGiANT project is to develop and validate innovative natural formulations with antimicrobial and antioxidant properties from the valorisation of white grape marc, to be used in cattle, swine, poultry and farmed fish production, aiming to reduce the dependence on the use of antibiotics in animal/aquaculture production.

The determination of bioactivities in extracts derived from by-products of natural origin is very useful from an analytical point of view to understand their properties and further potential applications. Among the bioactivities, two of the most important are the total polyphenol content (TPC) and the antioxidant activity (AA).

There are numerous procedures in the scientific literature to carry out these determinations. However, NeoGiANT project has faced that in many cases the results obtained are not comparable with each other, which makes comparability between studies very difficult, variability in quantification and hinders regulation and quality control.

The proposed CEN Workshop aims to harmonise two of the most employed methodologies to determine TPC and AA in extracts from agri-food by-products. Although these methodologies are derived within the framework of the NeoGiANT H2020 project, using white grape marc extracts, they can be extrapolated to extracts from other agri-food waste such as fruit or vegetables.

The standardisation of methodologies for the determination of bioactivities in agri-food by-products is of great interest in order to be able to compare the results of the different raw materials from different origin used.

Although the scope of CEN/TC 275 and CEN/TC 327 could allow for its development, in this moment their work programmes are not addressing it. Therefore, it is proposed that a new CWA document be drafted that will be available free of charge and at their disposal as input for drafting a standard later.

The proposed analytical methodologies for the characterization of extracts are part of the work carried out within the framework of the NeoGiANT project, which has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 101036768.

## **4 Workshop programme**

### **4.1 General**

The kick-off meeting is planned to take place on 2025-09-22 as virtual meeting. A draft for public commenting will be published for 30 days.

A total of three Workshop meetings (kick-off meeting and Workshop meetings) and web conferences will be held, during which the content of the CWA will be presented, discussed and approved.

The working language (language of meetings, minutes, etc.) of the WS will be English. The CWA will be written in English.

### **4.2 Workshop schedule**

**Table 1: Workshop schedule (preliminary)**

CEN/CENELEC Workshop	M01	M02	M03	M04	M05	M06	M07	M08	...
<b>Initiation</b>									
1. Workshop description form submission and TC response									
2. Open commenting period on draft project plan (mandatory)									
<b>Operation</b>									
3. Kick-off meeting									
4. CWA(s) development									
5. Open commenting period on draft CWA(s) (optional)									
6. CWA(s) finalized and approved by Workshop participants									
<b>Publication</b>									
7. CWA(s) publication									
<b>Dissemination (see 6)</b>									
<b>Milestones</b>									





#### Legend

- K** Kick-off
- V** Virtual Workshop meeting
- A** Adoption of CWA
- P** Publication of CWA
- D** Online distribution of CWA

## 5 Resource planning

The administrative costs of the CEN Workshop Secretariat will be financed within the framework of a research project: European Union's 2020 Research and Innovation programme funded project NeoGiANT under grant agreement No 101036768.

## 6 Workshop structure and rules of cooperation

### 6.1 Participation in the Workshop

The Workshop will be constituted during the kick-off meeting. By approving this project plan, the interested parties declare their willingness to participate in the Workshop and will be formally named as Workshop participants, with the associated rights and duties. Participants at the kick-off meeting who do not approve the project plan are not given the status of a Workshop participant and are thus excluded from further decisions made during the kick-off meeting and from any other decisions regarding the Workshop.

As a rule, the request to participate in the Workshop is closed once it is constituted. The current Workshop participants shall decide whether any additional members will be accepted or not.

Any new participant in the Workshop at a later date is decided on by the participants making up the Workshop at that time. It is particularly important to consider these aspects:

- a. expansion would be conducive to shortening the duration of the Workshop or to avoiding or averting an impending delay in the planned duration of the Workshop;
- b. the expansion would not result in the Workshop taking longer to complete;
- c. the new Workshop participant would not address any new or complementary issues beyond the scope defined and approved in the project plan;
- d. the new Workshop participant would bring complementary expertise into the Workshop in order to incorporate the latest scientific findings and state-of-the-art knowledge;
- e. the new Workshop participant would actively participate in the drafting of the manuscript by submitting concrete, not abstract, proposals and contributions;
- f. the new Workshop participant would ensure wider application of the CWA.

All Workshop participants who approved the publication of the CWA or its draft will be named as authors in the European Foreword, including the organizations which they represent. All Workshop participants who did not approve the publication of the CWA will not be named in the European Foreword.

### 6.2 Workshop responsibilities

The Workshop Chair is responsible for content management and consensus building. The Workshop Chair is supported by the Workshop Vice-Chair (if any) and the responsible Workshop secretariat, whereby the Workshop secretariat will always remain neutral regarding the content of the CWA(s). Furthermore, the Workshop secretariat shall ensure that CEN-CENELEC's rules of procedure, rules of presentation, and the principles governing the publication of CWA(s) have been observed. Should a Workshop Chair no longer be able to carry out her/his duties, the Workshop secretariat shall initiate the election of a new Workshop Chair. The list below covers the main tasks of the Workshop Chair. It is not intended to be exhaustive.

- Content related contact point for the Workshop
- Presides at Workshop meetings

- Ensures that the development of the CWA respects the principles and content of the adopted project plan
- Manages the consensus building process, assesses when the Workshop participants have reached agreement on the final CWA, on the basis of the comments received
- Ensures due information exchange with the Workshop secretariat
- Represents the Workshop and its results to exterior

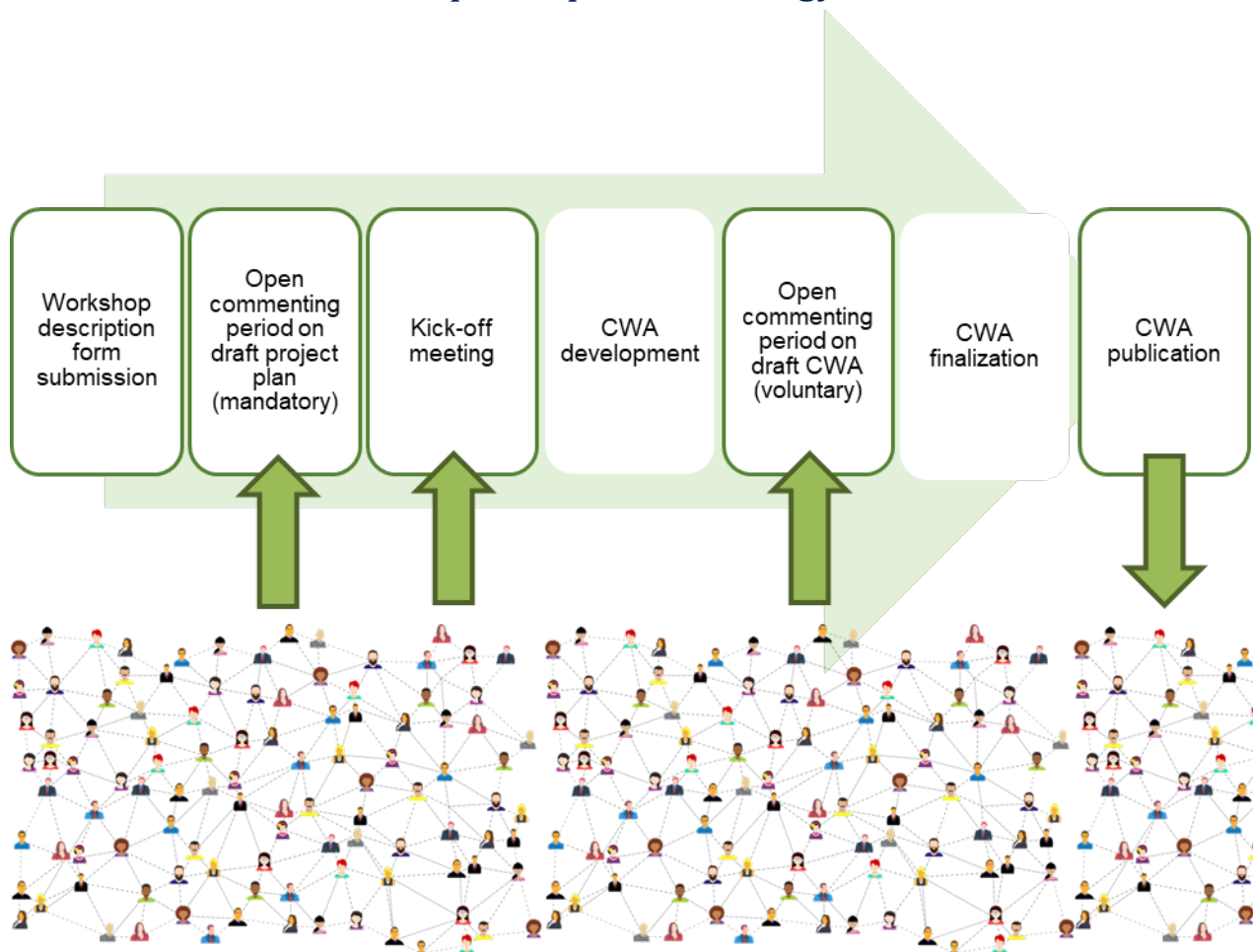
The Workshop secretariat, provided by a CEN and/or CENELEC Member, is responsible for organizing and leading the kick-off meeting, in consultation with the Workshop proposer. Further Workshop meetings and/or web conferences shall be organized by the Workshop secretariat in consultation with the Workshop Chair. The list below covers the main tasks of the Workshop secretariat. It is not intended to be exhaustive.

- Administrative and organizational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating organizations and individuals
- Offers infrastructure and manages documents and their distribution through an electronic platform
- Prepares agenda and distributes information on meetings and meeting minutes as well as follow-up actions of the Workshop
- Initiates and manages CWA approval process upon decision by the Workshop Chair
- Interfaces with CEN-CENELEC Management Centre (CCMC) and Workshop Chair regarding strategic directions, problems arising, and external relationships
- Advises on CEN-CENELEC rules and brings any major problems encountered (if any) in the development of the CWA to the attention of CEN-CENELEC Management Centre (CCMC)
- Administrates the connection with relevant CEN or CENELEC/TCs

### **6.3 Decision making process**

The CEN and/or CENELEC Workshop Chair is responsible for ensuring that the development of the CWA follows the principles and content of the project plan described in this document and the requirements of CEN-CENELEC Guide 29. The CEN and/or CENELEC Workshop Chair may take decisions on the conduct of the CEN and/or CENELEC Workshop on the basis of the comments expressed by the participants and of CEN-CENELEC Guide 29.

## 7 Dissemination and participation strategy



Potential participants identified in section 2.2 and potential interested stakeholders identified in Part A should be informed of the open commenting phase, if any, and of the publication of the CWA.

In addition to the CCMC website, the final CWA might be advertised on:

- NeoGiANT project [website](#) and social media
- sector specific newsletter
- social media, such as
  - Facebook
  - Instagram
  - LinkedIn
  - X
- Research Gate
- EC Newsroom
- Others